

CLAIM AMENDMENTS

1 Claims 1-28 (Canceled).

1 29. (New) A method for using a log associated with a first database to update a second
2 database, the method comprising the computer-implemented steps of:
3 based on said log that is associated with said first database, identifying first data;
4 generating second data based on said first data; and
5 sending said second data to said second database.

1 30. (New) The method of Claim 29, further comprising the computer-implemented step of:
2 monitoring said log that is associated with said first database;
3 identifying a change to said log; and
4 in response to identifying said change to said log, identifying said first data.

1 31. (New) The method of Claim 29, further comprising the computer-implemented steps of:
2 based on said first data, determining that one or more selection criteria are satisfied
3 prior to performing said steps of generating and sending.

1 32. (New) The method of Claim 31, further comprising the computer-implemented step of:
2 modifying said one or more selection criteria based on a change to third data that
3 includes at least one of (a) a rule set and (b) metadata.

1 33. (New) The method of Claim 32, wherein the step of modifying said one or more selection
2 criteria includes the computer-implemented step of:
3 in response to receiving notification of a change to said third data, modifying said one
4 or more selection criteria based on said change to said third data.

1 34. (New) The method of Claim 33, wherein said change is performed by a database builder
2 in response to input from a user.

1 35. (New) The method of Claim 29, wherein the step of generating said second data based on
2 said first data includes the computer-implemented step of:
3 generating said second data based on both said first data and third data.

1 36. (New) The method of Claim 35, wherein said third data is a rule set that includes one or
2 more criteria for identifying said first data based on said log.

1 37. (New) The method of Claim 35, wherein said third data is metadata that includes at least
2 one particular type of data selected from the group consisting of first database
3 architecture data, second database architecture data, network topology data, job control
4 data, scheduling data, and source code data.

1 38. (New) The method of Claim 29, wherein:
2 said second database is a particular database selected from the group consisting of a
3 data warehouse and a datamart;
4 said first database includes production data; and
5 said second database includes informational data that is derived based on said
6 production data.

1 39. (New) The method of Claim 29, further comprising the computer-implemented steps of:
2 after generating said second data, storing said second data in a cache;
3 prior to sending said second data, retrieving said second data from said cache.

1 40. (New) The method of Claim 29, further comprising the computer-implemented steps of:
2 prior to identifying said first data,
3 storing in a cache one or more log entries from said log, and
4 retrieving from said cache at least one log entry of said one or more log entries;
5 and
6 wherein the step of identifying said first data further comprises the
7 computer-implemented step of:
8 based on said at least one log entry, identifying said first data.

1 41. (New) The method of Claim 29, wherein:

2 said first database is a production database;

3 said second database is an informational database;

4 said first data is a log entry in said log;

5 said log entry is associated with a change to a first record stored in said first database;

6 said log entry includes undo information;

7 said first record includes production data;

8 said second data is a second record that is to be stored in said second database;

9 said second record includes at least one of a portion of said production data and

10 informational data that is based on said production data;

11 said steps of generating and sending are performed when one or more selection criteria

12 are satisfied based on said undo information; and

13 said one or more selection criteria are based on a rule set comprising dynamically

14 redefinable business logic.

A2
1 42. (New) The method of Claim 29, wherein:

2 the step of identifying first data further comprises the computer-implemented steps of:

3 opening said log that is associated with said first database; and

4 based on a rule set that specifies said one or more data selection criteria,

5 dynamically analyzing one or more log entries in said log to identify

6 said first data; and

7 a log monitor performs said steps of dynamically analyzing, generating, and sending

8 on a substantially continuous bases, thereby indirectly retrieving information

9 from said first database for use in updating said second database to maintain

10 large-grained concurrency between said first database and said second

11 database.

1 43. (New) A computer-readable medium carrying one or more sequences of instructions for
2 using a log associated with a first database to update a second database, wherein
3 execution of the one or more sequences of instructions by one or more processors
4 causes the one or more processors to perform the steps of:
5 based on said log that is associated with said first database, identifying first data;
6 generating second data based on said first data; and
7 sending said second data to said second database.

1 44. (New) The computer-readable medium of Claim 43, further comprising instructions
2 which, when executed by the one or more processors, cause the one or more
3 processors to carry out the steps of:
4 monitoring said log that is associated with said first database;
5 identifying a change to said log; and
6 in response to identifying said change to said log, identifying said first data.

A2
1 45. (New) The computer-readable medium of Claim 43, further comprising instructions
2 which, when executed by the one or more processors, cause the one or more
3 processors to carry out the step of:
4 based on said first data, determining that one or more selection criteria are satisfied
5 prior to performing said steps of generating and sending.

1 46. (New) The computer-readable medium of Claim 45, further comprising instructions
2 which, when executed by the one or more processors, cause the one or more
3 processors to carry out the step of:
4 modifying said one or more selection criteria based on a change to third data that
5 includes at least one of (a) a rule set and (b) metadata.

1 47. (New) The computer-readable medium of Claim 46, wherein the instructions for
2 modifying said one or more selection criteria further comprise instructions which,
3 when executed by the one or more processors, cause the one or more processors to
4 carry out the step of:
5 in response to receiving notification of a change to said third data, modifying said one
6 or more selection criteria based on said change to said third data.

1 48. (New) The computer-readable medium of Claim 47, wherein said change is performed by
2 a database builder in response to input from a user.

1 49. (New) The computer-readable medium of Claim 43, wherein the instructions for
2 generating said second data based on said first data further comprise instructions
3 which, when executed by the one or more processors, cause the one or more
4 processors to carry out the step of:
5 generating said second data based on both said first data and third data.

1 50. (New) The computer-readable medium of Claim 49, wherein said third data is a rule set
2 that includes one or more criteria for identifying said first data based on said log.

1 51. (New) The computer-readable medium of Claim 49, wherein said third data is metadata
2 that includes at least one particular type of data selected from the group consisting of
3 first database architecture data, second database architecture data, network topology
4 data, job control data, scheduling data, and source code data.

1 52. (New) The computer-readable medium of Claim 43, wherein:
2 said second database is a particular database selected from the group consisting of a
3 data warehouse and a datamart;
4 said first database includes production data; and
5 said second database includes informational data that is derived based on said
6 production data.

1 53. (New) The computer-readable medium of Claim 43, further comprising instructions
2 which, when executed by the one or more processors, cause the one or more
3 processors to carry out the steps of:
4 after generating said second data, storing said second data in a cache;
5 prior to sending said second data, retrieving said second data from said cache.

1 54. (New) The computer-readable medium of Claim 43, further comprising instructions
2 which, when executed by the one or more processors, cause the one or more
3 processors to carry out the steps of:
4 prior to identifying said first data,
5 storing in a cache one or more log entries from said log, and
6 retrieving from said cache at least one log entry of said one or more log entries;
7 and
8 wherein the instructions for identifying said first data further comprise instructions
9 which, when executed by the one or more processors, cause the one or more
10 processors to carry out the step of:
11 based on said at least one log entry, identifying said first data.

1 55. (New) The computer-readable medium of Claim 43, wherein:
2 said first database is a production database;
3 said second database is an informational database;
4 said first data is a log entry in said log;
5 said log entry is associated with a change to a first record stored in said first database;
6 said log entry includes undo information;
7 said first record includes production data;
8 said second data is a second record that is to be stored in said second database;
9 said second record includes at least one of a portion of said production data and
10 informational data that is based on said production data;

11 said instructions for generating and sending are executed by the one or more
12 processors when one or more selection criteria are satisfied based on said undo
13 information; and
14 said one or more selection criteria are based on a rule set comprising dynamically
15 redefinable business logic.

1 56. (New) The computer-readable medium of Claim 43, wherein:

2 the instructions for identifying first data further comprise instructions which, when
3 executed by the one or more processors, cause the one or more processors to
4 carry out the steps of:
5 opening said log that is associated with said first database; and
6 based on a rule set that specifies said one or more data selection criteria,
7 dynamically analyzing one or more log entries in said log to identify
8 said first data; and
9 a log monitor directs the one or more processors to execute the instructions for
10 dynamically analyzing, generating, and sending on a substantially continuous
11 bases, thereby indirectly retrieving information from said first database for use
12 in updating said second database to maintain large-grained concurrency
13 between said first database and said second database.
